## Index of Claims



Application No.

10/691,521

Examiner

Applicant(s)

IWATA ET AL.

Art Unit

William P. Fletcher III

1762

| 1 | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ī | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Cla  | aim      |          |  | Date   | e  |   | <b>;</b> | Cla          | im       |   | ate  |                    | <br> | Cla      | aim        |                |          | Da       | ate                |  | _        |          | ]        |
|--|----------|----------|--|--|--|---|----------|--------------|----------|---|--|--------------------|------|----------|------------|----------------|----------|----------|--------------------|--|----------|----------|----------|
|  | a        | 4        |  |  |  |   |          | _            | ā        |   |  |                    |      | =        | 힐          |                |          |          |                    |  |          |          | 1        |
| Final  | Original | 3/19/04  |  |  |  |   |          | Final        | Original |   |  |                    |      | Final    | Original   |                | -        |          | ı                  |  |          |          |          |
| ш  | 5        | 8        |  |  | 1  |   |          | ш.           | ō        |   |  |                    |      | _        | 0          |                |          | -        | -                  |  |          | 1_       |          |
|  | 1        | 1        |  |  | <del>                                     </del> | +   |          |              | 51       | 1111  | $\dashv \vdash \vdash$                           |                    |      |          | 101        |                |          |          | $\Box$             |  |          |          | ]        |
| <del>                                     </del> | 2        | 7        | - -  | $\dashv$   | 1  | +   |          |              | 52       |   |  |                    |      |          | 102        |                |          |          |                    | $\perp$  | $\perp$  |          | ┨        |
| $\vdash$   | 3        | 1        |  |  |  |   |          |              | 53       |   |  |                    |      |          | 103        |                | _        | _ _      | +                  | _  | _        | _        | 4        |
|  | 4        | 1        |  |  |  |   |          |              | 54       |   |  |                    |      |          | 104        | $\dashv$       | 4        | _        | $\perp$            | _  | +        | 4-       | 4        |
|  | 5        | 1        |  |  |  |   |          |              | 55       |   | _ _ _  |                    |      |          | 105        | ++             | -        | -+       | -                  | +  | +        | -        | 4        |
|  | 6        | 1        |  | $\perp$  |  |   |          |              | 56       |   |  | <del>      -</del> |      |          | 106<br>107 | $\dashv\dashv$ | +        | +        | +                  | +  | +        | +        | $\dashv$ |
|  | 7        | 1        |  |  | <u> </u>   | +   |          |              | 57       |   |  |                    |      |          | 107        | ┿              | $\dashv$ | -        | +                  | -  | +        | ╁        | ┨        |
|  | 8        | 1        | _   _  |  |  | +   |          |              | 58       |   |  | + +                |      | _        | 109        |                | $\dashv$ | +        | $\dashv$           | $\dashv$   | ╁        | +        | ┪        |
|  | 9        | 1        | $\dashv$   |  | 1-1-   | +-  |          |              | 59       |   | <del>       </del>                               | + +-               | 1    |          | 110        |                | 十        | +        | 十                  |  | ╁        | 十        | ٦        |
| <u> </u>   | 10       | 1        | $\dashv$   | $\dashv$   | +  | + + -   |          |              | 60<br>61 | <del></del>                                       | <del>                                     </del> | 1-                 |      |          | 111        | +              | $\dashv$ | +        | +                  | $\dashv$   | +        | $\top$   | 1        |
|  | 11       | 1        | $\vdash \vdash \vdash$                           |  | +-+  | + +-  |          |              | 62       | +++-  | <del>                                     </del> |                    | 1    |          | 112        | 1              | $\dashv$ | 十        | $\top$             | $\top$   | $\top$   |          | ٦        |
|  | 12<br>13 | 1        |  | $\dashv$   | + +  | +   |          |              | 63       |   |  | 1-1-               |      |          | 113        | $\top$         | $\neg$   | 十        | $\top$             | 十  | $\top$   | 1        | 7        |
| -  | 14       | 1        | $\vdash\vdash\vdash$                             | -  | +  | +++   |          |              | 64       | + + -   |  | 1                  | 16   |          | 114        | 11             |          | _        | 丁                  |  |          |          |          |
|  | 15       | 1        |  |  | ++-  | 1-1-1   |          |              | 65       |   |  |                    | 1    |          | 115        |                |          |          |                    |  |          |          |          |
| -  | 16       | 1        | - -  | -  | +  | 111   |          | ├ <b>-</b> - | 66       |   |  |                    |      |          | 116        |                |          |          | $oldsymbol{\perp}$ | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ |          |          | _        |
| -  | 17       | V        |  |  |  | +   |          |              | 67       |   |  |                    |      |          | 117        |                |          | $\perp$  |                    | $\perp$  | _        | $\bot$   | _        |
|  | 18       | 1        |  |  | $\top$   |   |          |              | 68       |   |  |                    |      |          | 118        |                | _        |          | $\perp$            |  |          | _        | _        |
|  | 19       | 1        |  |  |  |   |          |              | 69       |   |  |                    | 19   | ļ        | 119        |                | _        | _        |                    | _  | $\perp$  | +        | 4        |
|  | 20       | 1        |  |  |  |   | N        |              | 70       |   |  |                    | 1    |          | 120        |                | _        | 4        | -                  | 4  |          | -        | 4        |
|  | 21       | Г        |  |  | $T \perp$  |   |          |              | 71       |   | $\sqcup \sqcup \bot$                             | $\perp \perp$      |      |          | 121        |                | -        | $\dashv$ | -+                 | -+   | +        | +        | ᅱ        |
|  | 22       |          |  |  |  |   |          |              | 72       | _ _ _   | $\vdash$   | 1                  | 4    |          | 122        |                | $\dashv$ | -        | -                  | +  |          | +        | 4        |
|  | 23       |          |  |  |  |   |          |              | 73       |   | <del>                                     </del> | +                  |      |          | 123<br>124 |                | +        | +        | -+                 | -+   | +        | ╁        | $\dashv$ |
|  | 24       | <u> </u> |  |  |  |   |          |              | 74       |   | <del>                                     </del> |                    | 4    |          | 125        | +              | $\dashv$ | $\dashv$ | $\dashv$           | +  | +        | +        | $\dashv$ |
| <u></u>  | 25       | _        | _ _  | $\sqcup \!\!\! \perp$                            | 1  |   |          |              | 75       |   | -  | ++-                | -    | -        | 126        | +              |          | -+       | $\dashv$           | ╁  | +        |          | _        |
|  | 26       | -        |  |  | +  |   |          |              | 76       |   | <del>      -</del>                               |                    | -117 | $\vdash$ | 127        |                | -        | $\dashv$ | $\dashv$           | $\dashv$   | +        | +        | _        |
| <u> </u>   | 27       | ┞-       | <del>                                     </del> |  | +  |   | 4        |              | 77<br>78 |   | <del>   - -</del>                                | +                  | 1    | -        | 128        | _              | H        | _        | 十                  | +  | -        | +        | _        |
| <b> </b>   | 28       | +        |  | -  | ++   |   |          |              | 79       | <del>-      -</del>                               | <del>                                     </del> |                    | 4    | $\vdash$ | 129        |                | $\vdash$ | _        | 1                  |  | ╅        | _        | _        |
|  | 29<br>30 | ┼        | <del>                                     </del> |  | ┿┼   |   |          | <del> </del> | 80       | -   | <del>                                     </del> | +-+-               | 100  | <u> </u> | 130        | _              |          | _        |                    | 寸  | 7        | T        | _        |
| -  | 31       | ╁        |  |  | ╁┼   |   |          | -            | 81       | +   | ++-  | +++                | -    |          | 131        | $\dashv$       |          | $\neg$   |                    |  | $\neg$   | $\top$   |          |
|  | 32       | +        | $\vdash$   | $\vdash$   | ++   | + +-  |          | $\vdash$     | 82       |   | <del>                                     </del> |                    |      |          | 132        |                | П        |          |                    |  |          |          |          |
| -  | 33       | ╁        |  | $\vdash \vdash$                                  | ++-  | <del>                                     </del>  |          |              | 83       |   |  | 11                 |      |          | 133        |                |          |          |                    |  | $\Box$   |          | _        |
| $\vdash$   | 34       | +        | - -  | <del>                                     </del> | 1 +  | <del>                                      </del> |          |              | 84       |   |  |                    |      |          | 134        |                |          |          | $\Box$             | $\Box$   | $\perp$  | $\perp$  |          |
| $\vdash$   | 35       | 1        |  | $\vdash$   |  |   |          |              | 85       |   |  |                    |      |          | 135        |                | Ш        | $\Box$   | _                  | $\perp$  | $\perp$  |          | _        |
|  | 36       | T        | $\sqcap$   |  |  |   | 4.       |              | 86       |   |  | $\perp T$          |      |          | 136        | $\bot$         | $  \_  $ | _        | $\dashv$           | _  | $\perp$  | _        | _        |
| $\vdash$   | 37       | T        |  |  |  |   |          |              | 87       |   | <del>                                     </del> |                    | 1    |          | 137        |                | $\sqcup$ | _        | _                  | -  | 4        | $\dashv$ | _        |
|  | 38       | $\perp$  |  |  |  |   | 114      |              | 88       |   | <del>                                     </del> | $\perp \perp$      |      | -        | 138        | +              |          | $\dashv$ | -                  | -}   | $\dashv$ | -        | _        |
|  | 39       |          |  |  |  |   | 4        |              | 89       |   | _ _  | $\perp \perp$      | - 33 |          | 139        | - -            | $\vdash$ | $\dashv$ |                    | -  | +        | +        | _        |
|  | 40       |          |  |  | $\perp \perp$                                    | 44  | r.       |              | 90       |   | ++   | ++                 | -    |          | 140        | -              | Н        | $\dashv$ | $\dashv$           |  | +        |          | _        |
|  | 41       | _        | $\vdash$   | $\sqcup \bot$                                    | _ _ _  | $\bot$  |          |              | 91       |   | <del>                                     </del> |                    | -    |          | 141<br>142 | $\dashv$       | $\vdash$ |          | -                  | $\dashv$   | +        | +        | _        |
| _  | 42       | $\bot$   |  |  |  | +   |          |              | 92       |   | <del>├─├</del>                                   | ++                 | -    | -        | 143        |                | $\vdash$ | $\dashv$ |                    | $\dashv$   | +        | +        | _        |
| -  | 43       |          | $\vdash$   | -  | ++   | +   |          | <u> </u>     | 93       | <del>- - -</del>                                  | <del>                                     </del> | ++                 | -    | _        | 144        | <del></del>    | Н        |          | $\dashv$           | $\dashv$   | +        | +        | _        |
| <u> </u>   | 44       | +-       | <del>                                     </del> | ┼-   | ++-  |   |          |              | 94<br>95 | <del>- - -</del>                                  | <del>       </del>                               | ++                 | -0,  | -        | 145        |                | Н        | $\dashv$ | $\dashv$           | $\dashv$   | $\dashv$ | $\dashv$ | _        |
| _  | 45       | +        | +  |  | +  |   |          | -            | 96       |   | +++  | ++                 | -    | -        | 146        | $\dashv$       | $\vdash$ | $\vdash$ | -                  | +  | 十        | $\dashv$ | -        |
| -  | 46       |          | ++   | +-+  | ++   | ++-   | 1        | -            | 96       | <del>-                                     </del> | +++  | +                  | -    | -        | 147        | +              | Н        |          | $\dashv$           | $\dashv$   | 十        | $\top$   | _        |
| -  | 47<br>48 | +        | +  | ┼-┼-   | ++   | +   |          | -            | 98       | <del>-                                     </del> | + + +  | ++                 |      |          | 148        | $\dashv$       | $\vdash$ | $\vdash$ |                    | $\neg$   | _        | $\neg$   |          |
| $\vdash$   | 49       |          | ++   | <del>   -</del>                                  | ++   | ++  |          |              | 99       | -   -   -   | ++++   | ++                 | -    |          | 149        | $\top$         |          | П        |                    |  | 丁        | 丁        | _        |
| $\vdash$   | 50       | ╁╌       | ++   | ++   | ++   | ++-   |          | -            | 100      |   | 1  | $\top$             |      |          | 150        | $\neg$         |          |          |                    |  |          |          | _        |
| <u> </u>   | 1 50     | —        |  |  |  |   |          | -            | 1.00     |   |  |                    |      |          |            |                |          |          |                    |  |          |          | _        |